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Patent Abstract

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GER 1999-06-24 19757197 **Manufacture procedures for micro-mechanical appliance**
ANNOTATED TITLE- Herstellungsverfahren foOr mikromechanische Vorrichtung

INVENTOR(S)- Funk, Karsten 70195 Stuttgart DE
INVENTOR(S)- Frey, Wilhelm, Dr. 70469 Stuttgart DE

APPLICANT(S)- Robert Bosch GmbH 70469 Stuttgart DE

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The invention creates a manufacture procedure for a micro-mechanical appliance, especially for a micro-mechanical Schwingspiegelvorrichtung, with the steps,: With what the second layer (20) lies between the first and the third layer (10, 30) prepares a three-layered structure (10, 20, 30)

with a first layer (10), a second layer (20) and a third layer (30),; Durchoatzen of the first layer (10) up to the second layer (20) to generating an on the second layer (20) of lying island area (40), that over one or several connection bridges (50), with which is surrounding area (60) of the first layer (10) interconnected the island area, and Durchoatzen of an area (70, 80) the third layer (30) up to the second layer (20) and removing of an area (75, 85) the second layer (20) under the island area (40), so, that the island area (40) can execute movements, preferably torsion vibrations, about the one or them/her/it several connection bridge (50), the such an amplitude shows, that a part of the island area (40) in-sticks out the third layer (30) into the durchgeoatzten area (70, 80).

EXEMPLARY CLAIMS- 1. Manufacturing process fr a micromechanical forwards-direction, in particular fr a micromechanical swing- mirror device, with the steps: Makes available to a dreischichtigen structure (10, 20, 30) with a first layer (10), a second layer (20) and a third layer (30), whereby the second layer (20) lies between first and the third layer (10, 30); Durchtzen of the first layer (10) up to the second layer (20) for producing one on the second layer (of 20) lie-genden island range (40), which more ber one or more-connection bars (50) with the island range (40) surrounding range (60) of the first layer (10) is connected; and Durchtzen of a range (70, 80) of the third layer (30) up to the second layer (20) and removing a range (75, 85) of the second layer (20) under the island range (40) in such a manner, since the island range (40) can ausfhren around or several connecting posts (50) movements, preferably torsion vibrations, which exhibit such an amplitude, there a part of the island range (40) into the durchgetzten range (70, 80) of the third layer (30) projects. 2. Procedure according to requirement 1, by it marked, there zunchst the Durchtzen of the range (70) of the third layer (30), afterwards the Durchtzen of the first layer (10) and afterwards removing the range (75) of the second layer (20) is durchgefhrt. 3. Procedure according to requirement 2, thereby is marked, there the Durchtzen of the range (70) of the third layer (30) is durchgefhrt by an anisotropic Rckseitentzung. 4. Procedure according to requirement 1, 2 or 3, thus gekenn -, there the Durchtzen of the first layer (10) draws by a Trockentzung is durchgefhrt. 5. Procedure according to requirement 1, by it marked, there zunchst the Durchtzen of the first layer (10) and afterwards removing the range (85) of the second layer (20) and the Durchtzen of the range (80) of the third layer (30) is durchgefhrt. 6. Procedure according to requirement 5, thereby is marked, there the Durchtzen of the range (80)

NO-DESCRIPTORS

Nerac, Inc. One Technology Drive . Tolland, CT
Phone (860) 872-7000 Fax (860) 875-1749